

FIG. 1

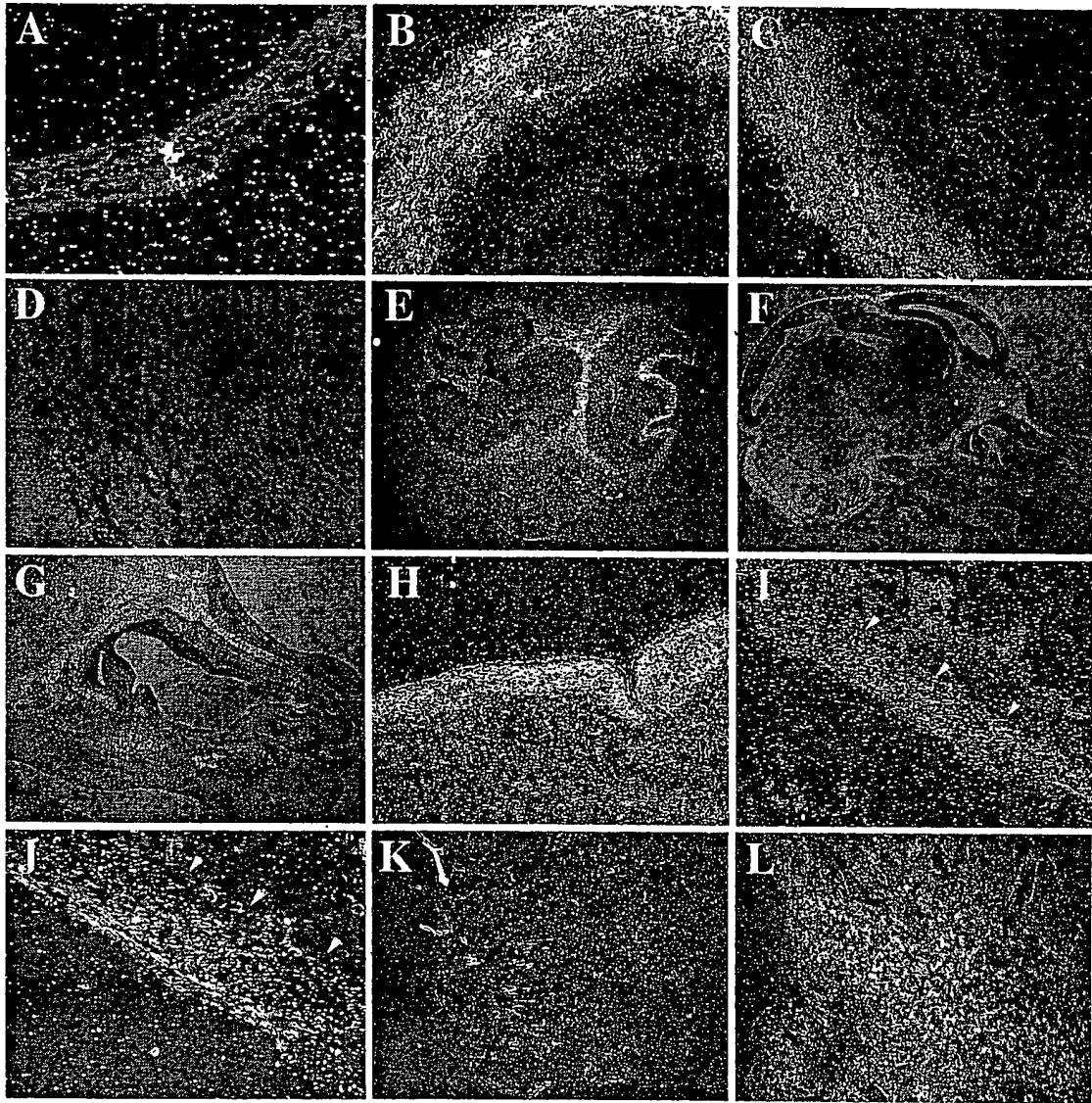


FIG. 2

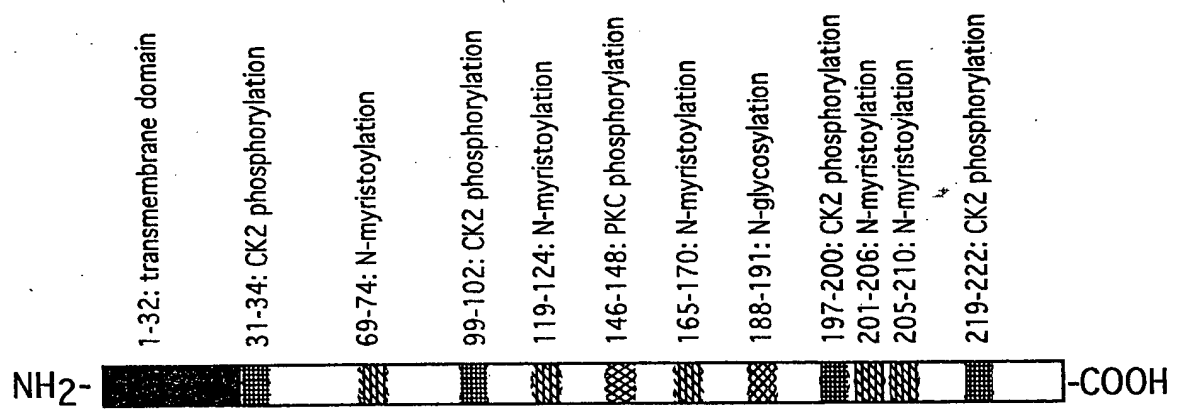


FIG. 3

Rat CCCTTTGCTCTCTGCTCTGCGCTTCGCGCTACCGCACACGATGACCCCCAAGGCCGCG
Human TCCTCCGCTCCAGCTCCGCGCTGCCGCGAGCCGGGAGCCATGCGACCCAGGGCCCCG

70 80 90 100 110 120

Rat 140 150 160 170 180 190
Human CCGCTCCCCACAGCTGCTGCTCGGCTCTTCTTGTGCTACTGCTGCTTCTGCACTGT
CGGCTCCCGCAGCGCTCCGCGGCTCTCT-----GCTGCTCTGCTGCTGCACTGC

130 140 150 160 170

Rat 200 210 220 230 240 250
Human CCGCGCGCTCCAGCGCTCTGAGAATCCCAAGGTGAAGCAAAAGCGCTGATCCGGCAGA
CGGCGCGCTCGAGCGCTCTGAGATCCCAAGGGGAAGCAAAAGCGCAGCTCCGGCAGA

180 190 200 210 220 230

Rat 260 270 280 290 300 310
Human GGAAGTGGTAGACCTGTATAATGGGATGTGCCTACAAGGACCAGCAGAGTTCCTGGTC
GGGAGGTGGTGGACCTGTATAATGGAATGTGCTTACAAGGGCCAGCAGAGTGTCTGGTC

240 250 260 270 280 290

Rat 320 330 340 350 360 370
Human GCGATGGGAGCCCTGGGGCCAATGGCATTCTTGGCACACCGGGAATCCAGGTTCGGGATG
GAGACGGGAGCCCTGGGGCCAATGGCATTCCGGGTACACCTGGGATCCAGGTTCGGGATG

300 310 320 330 340 350

Rat 380 390 400 410 420 430
Human GATTCAAAGGAGAGAAAGGGGAGTGTCTAAGGGAAAGCTTTGAGGAATCTTGGACCCCAA
GATTCAAAGGAGAGAAAGGGGGAATGTCTGAGGGAAAGCTTTGAGGAGTCTTGGACCCCAA

360 370 380 390 400 410

Rat 440 450 460 470 480 490
Human ACTACAAGCAGTGTTCATGGAGTTCATTGAATTATGGCATAGATCTTGGGAAAATTGCGG
ACTACAAGCAGTGTTCATGGAGTTCATTGAATTATGGCATAGATCTTGGGAAAATTGCGG

420 430 440 450 460 470

Rat 500 510 520 530 540 550
Human AATGTACATTACAAAGATGCGATCCAACAGCGCTCTTCGAGTTCTGTTCAGTGGCTCGC
AGTGTACATTACAAAGATGCGATCCAATAGTGTCTTAAGAGTTTGTTCAGTGGCTCAC

480 490 500 510 520 530

Rat 560 570 580 590 600 610
Human TTCGGCTCAAATGCAGGAATGCTTGTGTCAACGCTGGTATTTTACCTTTAATGGAGCTG
TTCGGCTAAAATGCAGAAATGCATGCTGTCAAGCTTGGTATTTACATTCAATGGAGCTG

540 550 560 570 580 590

Rat 620 630 640 650 660 670
Human AATGTTCAAGACCTCTTCCCATTTGAAGCTATCATCTATCTGGACCAAGGAAGCCCTGAGT
AATGTTCAAGACCTCTTCCCATTTGAAGCTATAATTTATTTGGACCAAGGAAGCCCTGAA

600 610 620 630 640 650

Rat 680 690 700 710 720 730
Human TAAATTCAACTATTAAATATTCATCGTACTTCTCCGTGGAAGGACTCTGTGAAGGGATTG
TGAATTCAACAATTAAATATTCATCGCACTTCTTCTGTGGAAGGACTTGTGAAGGAATTG

660 670 680 690 700 710

Rat 740 750 760 770 780 790
Human GTGCTGGACTGGTAGACGTGGCCATCTGGGTGGGACCTGTTTCAAGATTACCCAAAGGAG
GTGCTGGATTAGTGGATGTGCTATCTGGGTGGGCACTTGTTCAGATTACCCAAAGGAG

720 730 740 750 760 770

Rat 800 810 820 830 840 850
Human ACGCTTCTACTGGGTGGAATTCTGTGTCCCGCATCATCATTGAAGAACTACCAAAATAAA
ATGCTTCTACTGGATGGAATTCAGTTTCTCGCATCATTATTGAAGAACTACCAAAATAAA

780 790 800 810 820 830

Rat 860 870 880 890 900 910
Human GCCCCTGAAGGTTTCATTCCCTGCCTCATTACTTGTAAATCAAGCCTCTGGATGGGTC
TGCTTTAAT--TTTCATTGTCTACCTCTTTTTTT-----ATTATGCCTTGAATGGTTC

840 850 860 870 880

Rat 920 930 940 950 960 970
Human ATTTAAATGACATTTCAGAAGTCACTTATGTGCTCAGCCAAATGAAAAGCAAAGTTAAA
ACTTAAATGACATTTC--AATAAGTTTATGTATACATCTGAATGAAA--GCAAAGCTAAA

890 900 910 920 930 940

Rat 980 990 1000 1010 1020 1030
Human TACGTTTACAGACCAAGTGTGATCTCACACT---TTAAGATCTAGCATTATCCATTTTA
TATGTTTACAGACCAAGTGTGATTTTCACTGTTTAAATCTAGCATTATTCATTTTG

950 960 970 980 990 1000

Rat 1040 1050 1060 1070 1080
Human TTTCAACCAAGATGGTTTCAGGATTTTATTTCTCATT--GATTACTTTTG-----
CTTCAATCAAAAGTGGTTCAATATTTTGTAGTGGTTAGAATACTTCTTCATAGTCA

1010 1020 1030 1040 1050 1060

Rat 1090 1100 1110 1120 1130
Human -----AGCCTATATACCGGAATGCTGTATAGTCTTTAATATTTCTACT--GTTGA
CATCTCTCAACCTATAATTGGAATATGTTGTGGTCTTTTGTGTTTTCTCTTAGTATA

1070 1080 1090 1100 1110 1120

Rat 1140 1150 1160 1170 1180
Human -CATTTTGAAACA--TATAAAGTTATG--TCTTTGTAAGAGCTGTATA-----GAATT
GCATTTTAAAAAATATAAAGCTACCAATCTTTGTACAATTTGTAATGTTAAGAATT

1130 1140 1150 1160 1170 1180

Rat 1190 1200 1210
Human ATTTT---ATATGTTAAATAA---TGCTTCAACAA
TTTTTTATCTGTTAAATAAATAATTTTCAACAA

1190 1200 1210 1220

Fig. 4A

Rat:	1	MHPQGRAASPQLLGLFLVLLLLLQLSAPSSASENPKVKQKALIRQREVVDLYNGMCLQG	60
		M+PQG+AASPQ+L+GL+++LLLLLQL+APSSASE+PK+KQKA++RQREVVDLYNGMCLQG	
Human:	1	MRPQGPAAASPQRLRGL--LLLLLQLPAPSSASEIPKQKQKALRQREVVDLYNGMCLQG	58
Rat:	61	PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGKECLRESFEESWTPNYKQCSWSSLNYGI	120
		PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGKECLRESFEESWTPNYKQCSWSSLNYGI	
Human:	59	PAGVPGRDGSPGANGIPGTPGIPGRDGFKEGKECLRESFEESWTPNYKQCSWSSLNYGI	118
Rat:	121	DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYYL	180
		DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYYL	
Human:	119	DLGKIAECTFTKMRSNSALRVLFSGSLRLKCRNACCQRWYFTFNGAECSGPLPIEAIYYL	178
Rat:	181	DQGSPELNSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNVSRIII	240
		DQGSPE+NSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNVSRIII	
Human:	179	DQGSPEMNSTINIHTSSVEGLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNVSRIII	238
Rat:	241	EELPK 245	
		EELPK	
Human:	239	EELPK 243	

Fig. 4B

MRPAAELGQTL SRAGLCRPLCLLLCASQLPHTMHPQGRAASPQLLLGLFLVLLLLLQL
SAPSSASENPKVKQKALIRQREVVDLYNGMCLQGPAGVPGRDGSPGANGIPGTPGIPG
RDGFKGEKGECLRESFEESWTPNYKQCSWSSLNYGIDLKIAECTFTKMRSNSALRVL
FSGSLRLKCRNACCQRWYFTFNGAECGPLPIEAIYLDQGSPELNSTINIHRSSVE
GLCEGIGAGLVDVAIWVGTCSDYPKGDASTGWNSVSRIIIIEELPK

FIG. 4C

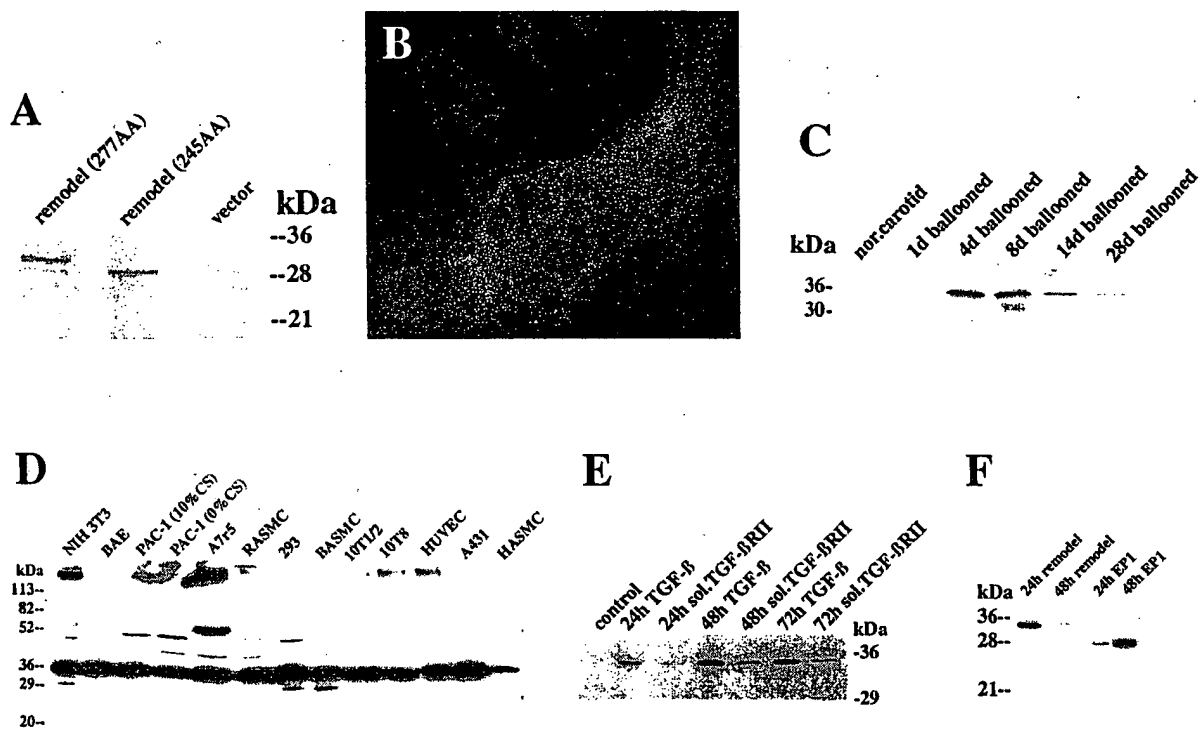


FIG. 5

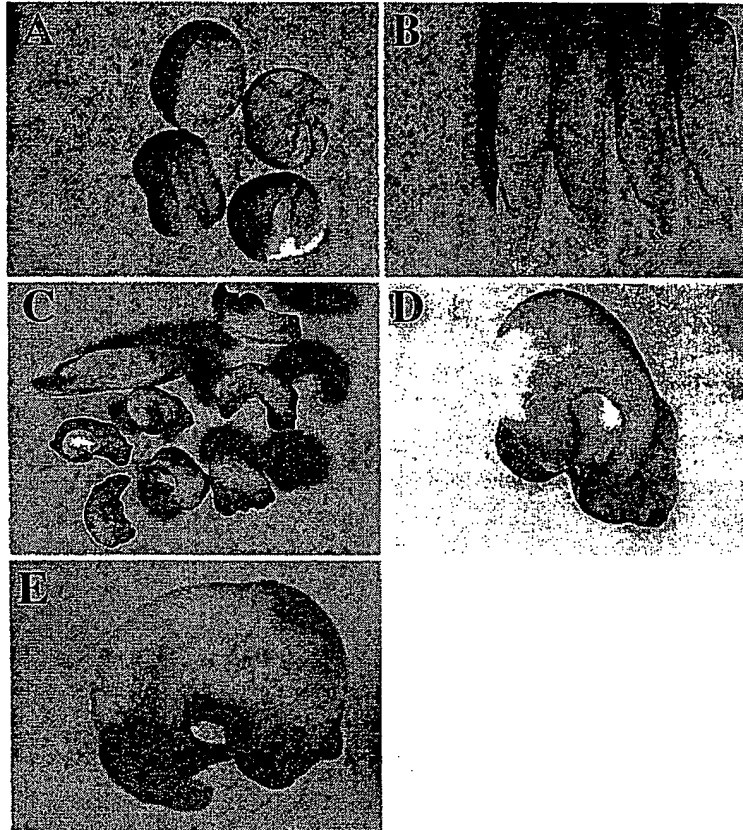


FIG. 6

ATG GCCCCCAAGG CCGCGCCGCC TCCCCACAGC TGCTGCTCGG CCTCTTCGTT GTGCTACTGC
 TGCTTCTGCA GCTGTCCGCG CCGTCCAGCG CCTCTGAGAA TCCCAAGGTG AAGCAAAAAG
 CGCTGATCCG GCAGAGGGAA GTGGTAGACC TGTATAATGG GATGTGCCTA CAAGGACCAG
 CAGGAGTTCC TGGTCGCGAT GGGAGCCCTG GGGCCAATGG CATTCTTGGC ACACCGGGAA
 TCCCAGGTCG GGATGGATTG AAAGGAGAGA AAGGGGAGTG CTTAAGGGAA AGCTTTGAGG
 AATCCTGGAC CCCAACTAC AAGCAGTGTT CATGGAGTTC ACTTAATTAT GGCATAGATC
 TTGGGAAAAT TGCGGAATGT ACATTACAA AGATGCGATC CAACAGCGCT CTTGAGTTTC
 TGTTCAAGTG CTCGCTTCGG CTCAAATGCA GGAATGCTTG CTGTCAACGC TGGTATTTTA
 CCTTTAATGG AGCTGAATGT TCAGGACCTC TTCCCATTGA AGCTATCATC TATCTGGACC
 AAGGAAGCCC TGAGTTAAAT TCAACTATTA ATATTCATCG TACTTCCTCC GTGGAAGGAC
 TCTGTGAAGG GATTGGTGCT GGACTGGTAG ACGTGGCCAT CTGGGTCGGC ACCTGTTGAG
 ATTACCCCAA AGGAGACGCT TCTACTGGGT GGAATTCTGT GTCCCGCATC ATCATTGAAG
 AACTACCAA A

FIG. 7

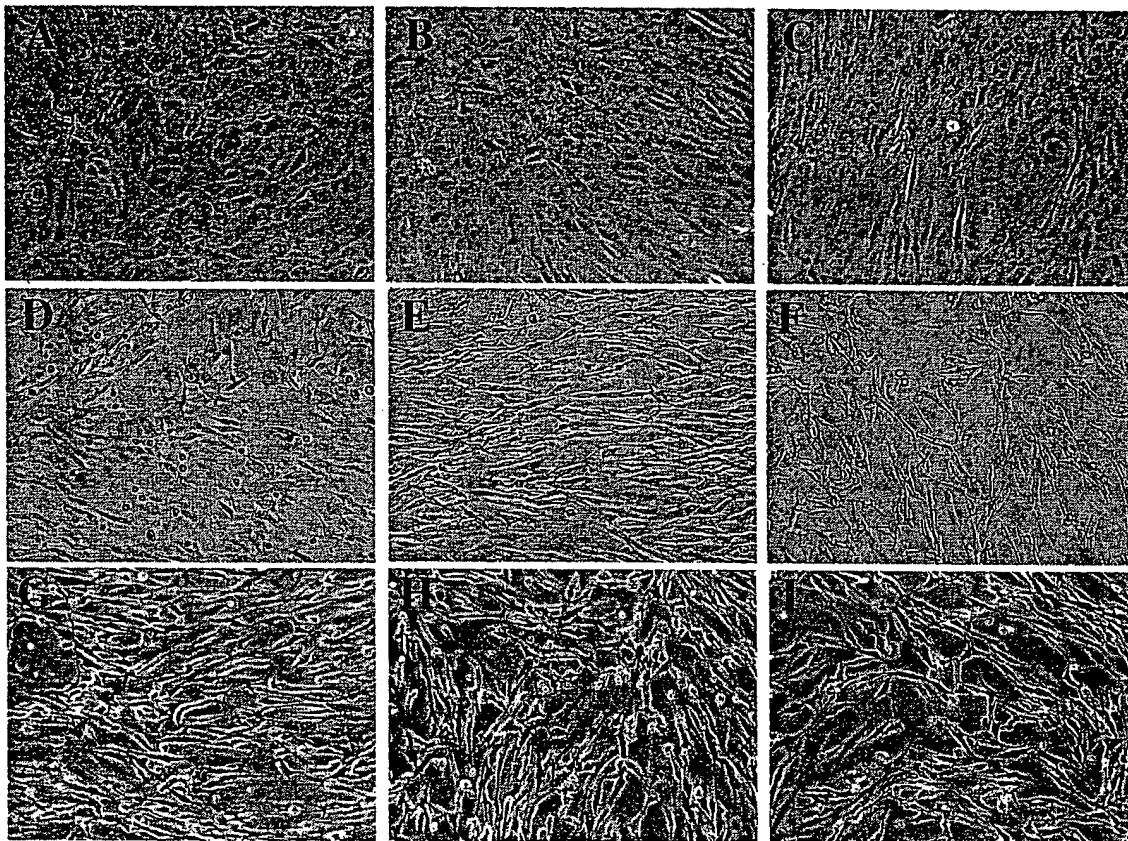


FIG. 8

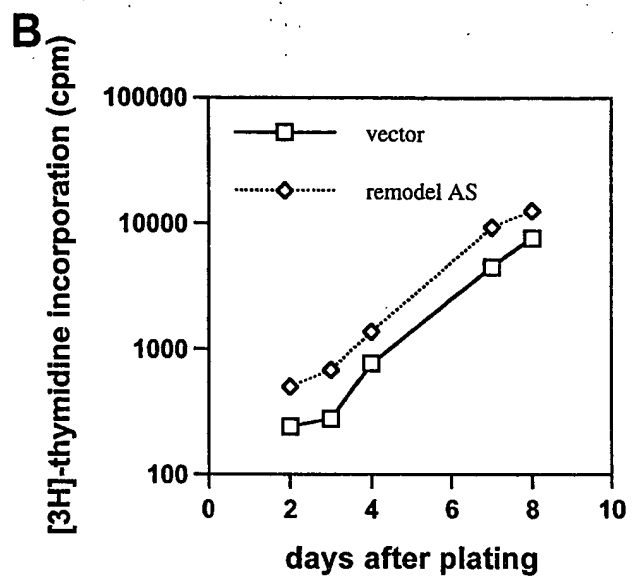
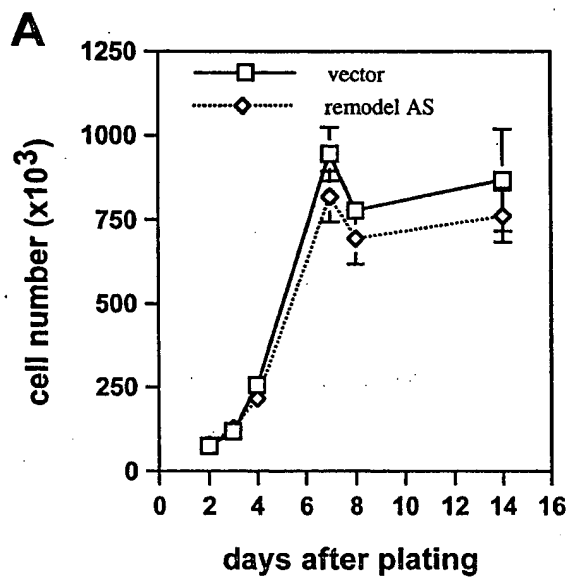


FIG. 9

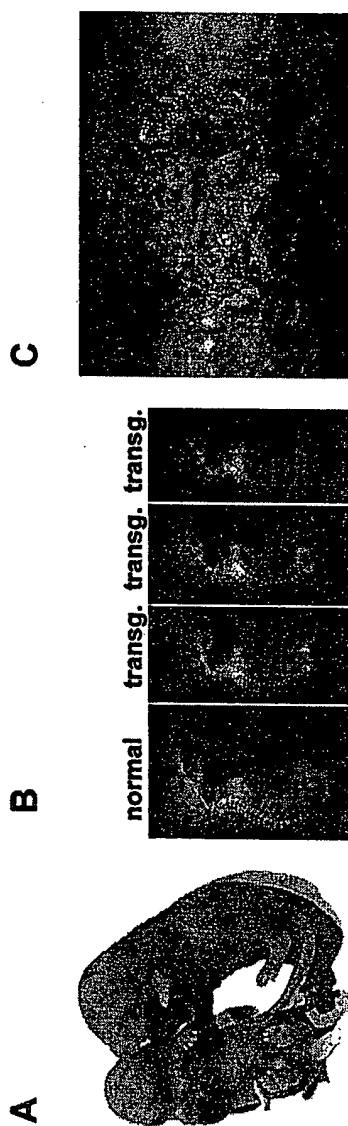


FIG. 10

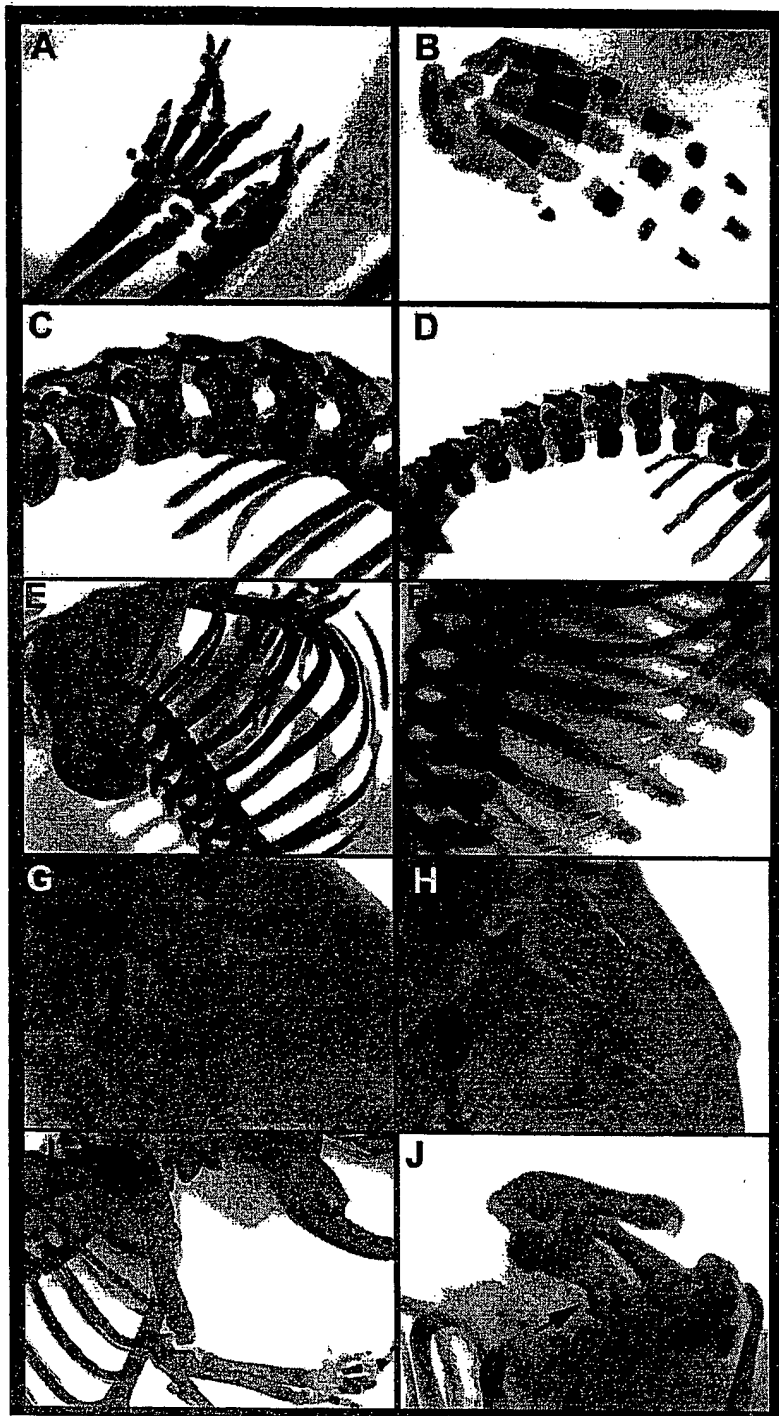


FIG. 11

CCACCCAGUAGAAGCGUCUCCUUUGGGGUAAUCUGAACAGGUGCCGACCCAGAUGGCC
ACGUCUACCAGUCCAGCACCAAUCCCUUCACAGAGUCCUCCACGGAGGAAGUACGAU
GAAUAUUAUAGUUGAAUUUAACUCAGGGCUUCCUUGGUCCAGAUAGAUGAUAGCUUC
AAUGGGAAGAGGUCCUGAACAUUCAGCUCCAUUAAAGGUAAAAUACCAGCGUUGACAG
CAAGCAUUCUGCAUUGAGCCGAAGCGAGCCACUGAACAGAACUCGAAGAGCGCUGU
UGGAUCGCAUCUUUGUGAAUGUACAUCCGCAAUUUCCCAAGAUUAUGCCAUAUU
AAGUGAACUCCAUGAACACUGCUUGUAGUUUGGGGUCCAGGAUCCUCAAGCUU

FIG. 12